

## REMARKS

Claims 4-23 are original in the application. In the present amendment, Applicant amends claims 10. The limitation "regardless of the measurement value" as recited in claims 4, 11, 17 and the limitation "regardless of the strength of pilot" as recited in claims 16, 22 are disclosed in the specification.

In the Office Action dated October 12, 2000 and the Final Office Action dated May 31, 2001, the Examiner asserts that the pilot strength is measured and transmitted to the base station only if the pilot strength satisfies three conditions. However, the three conditions apply only to the *transmission of the pilot strength measurement message (PSMM)* and does not apply to the saving of pilot strength measurements.

In the exemplary embodiment, pilot measurement values are saved on the mobile station's accumulator 60 regardless of the measurement value.

Search processor 56 generates a PN sequence which is used by pilot demodulator 58 to demodulate the received signal. The demodulated pilot signal is provided to energy accumulator 60 which measures the energy of the demodulated pilot signal, *by accumulating the energy* (emphasis added) for predetermined sequence length. The measured pilot energy values are provided to control processor 62. Page 9, lines 18-23.

In an embodiment as illustrated in FIG. 4, pilot measurement values are saved on the base station regardless of the measurement value. "[H]andoff control processor 20 provides the information provided in the pilot strength measurement

message to PSMM database 21." Page 11, lines 1-3. There is no qualification on the saving of the pilot strength measurement messages to the PSMM database 21.

In the exemplary embodiment, the pilot strength measurements are saved in the accumulator 60 regardless of the measurement values and in another embodiment, the pilot strength measurements are saved in the PSMM database regardless of the measurement values.

The summary describes the saving of pilot strength measurement messages in a database regardless of measurement values as evidenced by the accumulation of raw data.

In the present invention, pilot strength measurement messages that base stations of the system to be optimized are saved in a database. The database accumulates the *raw data* (emphasis added) contained in the pilot strength measurement messages. Page 5, lines 20-25.

Thus, pilot strength measurements are saved regardless of the measurement values as required by independent claims 4, 11, 16-17, and 22. Consequently, independent claims 4, 11, 16-17, and 22 are patentable and their dependent claims 5-9, 12-15, 18-21, and 23 are also patentable.

Claim 10 is rejected under 35 U.S.C. 102(b) as being anticipated by Andersson (5,375,123) hereinafter Andersson. Claim 10 as modified overcomes the 35 U.S.C. 102(b) rejection. Claim 10 as modified is patentable since Andersson does not disclose setting a set of parameters of a cellular network to *optimize* said cellular network.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Blakeney, II (5,267,261) hereinafter Blakeney in view of Sawyer (5,915,221) hereinafter Sawyer. Neither Blakeney nor Sawyer discloses setting a set of parameters of a cellular network to *optimize* said cellular network. Thus, claim 10 is patentable.

## APPENDIX A

### MARKED UP VERSION OF AMENDED CLAIM 10:

10. (Twice amended) A method to optimize a network's configuration,  
2 comprising the steps of:  
setting a set of parameters of a cellular network to optimize said cellular network;  
4 operating said cellular network for a predetermined interval;  
compiling strengths of pilot signals received at a mobile station and caused by  
6 said operating, said compilation resulting in a pilot strength message;  
communicating said pilot signal strength message from said mobile station to  
8 another station;  
saving data to a database from said received pilot signal strength messages  
10 during said predetermined interval; and  
revising said set of parameters in accordance with said data.

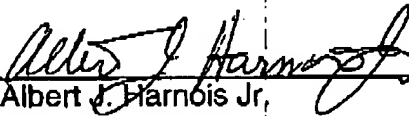
### REQUEST FOR ALLOWANCE

In view of the foregoing, Applicant submits that all pending claims in the application are patentable. Accordingly, reconsideration and allowance of this application is earnestly solicited. Should any issues remain unresolved, the Examiner is encouraged to telephone the undersigned at the number provided below.

Respectfully submitted,

Dated: 07/31/2001

By:

  
Albert J. Harnois Jr.,  
Reg. No. 46,123  
Attorney for Applicant(s)

QUALCOMM Incorporated  
5775 Morehouse Drive  
San Diego, California 92121  
Telephone: (858) 651-4368  
Facsimile: (858) 658-2502